UNITED STATES PATENT AND TRADEMARK OFFICE

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590   08/28/2009

Glovsky and Popeo, PC
Chrysler Center
666 Third Avenue 24th floor
New York, NY 10017

EXAMINER
WONG, LESLIE

ART UNIT	PAPER NUMBER
2164	

DATE MAILED: 08/28/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,621	03/01/2002	David Pratt Remsen	58378.127	7946

TITLE OF INVENTION: MANAGING TAXONOMIC INFORMATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1510	$300	$0	$1810	11/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: <u>Mail</u>

Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590   08/28/2009

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New York, NY 10017

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

_____ (Depositor's name)

_____ (Signature)

_____ (Date)

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nonprovisional	NO	$1510	$300	$0	$1810	11/30/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
WONG, LESLIE	2164	707-104100

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE   (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) :   ❑ Individual   ❑ Corporation or other private group entity   ❑ Government

4a. The following fee(s) are submitted:

❑ Issue Fee

❑ Publication Fee (No small entity discount permitted)

❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): (**Please first reapply any previously paid issue fee shown above**)

❑ A check is enclosed.

❑ Payment by credit card. Form PTO-2038 is attached.

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

❑ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

❑ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____   Date _____

Typed or printed name _____   Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

	Application No.	Applicant(s)
Notice of Allowability	10/087,621	REMSEN ET AL.
	Examiner	Art Unit	
	LESLIE WONG	2164	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to _06/22/2009_.

2. ☒ The allowed claim(s) is/are _32-33,38-60, 62-66, and 69-70 and now renumbered as 1-32_.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of
        Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08),
    Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☐ Interview Summary (PTO-413),
    Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☐ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Mr. Boris A. Matvenko on 18 August 2009.

The application has been amended as follows:

Claims 1-31. (cancelled)

32. (**Currently Amended**) A computerized method for managing taxonomic

information to facilitate retrieval of information, wherein information includes at least one

of the following another name for an organism, a classification for an organism,

taxonomic data for an organism, and/or other data related to an organism, comprising:

identifying a first name that specifies an organism;

determining if the first name corresponds to a name entry in a names table;

identifying a first taxonomic identifier of the name entry;

determining if the first taxonomic identifier is included in a classification entry in a

classification table allowing taxa to be organized according to more than one

classification, wherein each entry in the classification table associates the first

taxonomic identifier with a classification identifier, a relationship attribute, and a second

taxonomic identifier, and wherein the classification table is included in a database of

classifications configured to accommodate alternative classifications and help determine

a classification for the organism, wherein the database of classifications includes a

reference table in which each entry associates a classification identifier with a taxon that represents the root of the classification;

       identifying the second taxonomic identifier of the classification entry; and

       based on the second taxonomic identifier, identifying a second name; retrieving the information based on at least the first and/or second name.

33. (Previously Presented) The method of claim 32, further comprising: based on the first name and the second name, deriving a search parameter.

Claims 34-37. (cancelled).

38. (**Currently Amended**). A computerized system for managing taxonomic information to facilitate retrieval of information, wherein information includes at least one of the following another name for an organism, a classification for an organism, taxonomic data for an organism, and/or other data related to an organism, comprising: a processor configured to operate on:

       a name identifier component configured to identify a first name that specifies an organism,

       a determiner component configured to determine if the first name corresponds to a name entry in a names table;

       an identifier component configured to identify a first taxonomic ID of the name entry;

       another determiner component configured to determine if the first taxonomic ID is included in a classification entry in a classification table, wherein each entry in the classification table associates the first taxonomic ID with a classification identifier, a relationship attribute, and a second taxonomic ID, and wherein the classification table is included in a database of classifications configured to accommodate alternative classifications and help determine a classification for the organism, wherein the database of classifications includes a reference table in which each entry associates a classification identifier with a taxon that represents the root of the classification;

a second identifier component configured to identify the second taxonomic ID of the classification entry; and

a third identifier component configured to identify, based on the second taxonomic ID, a second name;

wherein said processor is configured to retrieve information based on at least said first name or said second name.

39. (**Currently Amended**). Computer software, residing on a computer-readable storage medium, comprising a set of instructions for use in a computer system to help cause the computer system to manage taxonomic information to facilitate retrieval of information, wherein information includes at least one of the following another name for an organism, a classification for an organism, taxonomic data for an organism, and/or other data related to an organism, the set of instructions for causing the computer system to:

identify a first name that specifies an organism;

determine if the first name corresponds to a name entry in a names table;

identify a first taxonomic ID of the name entry;

determine that the first taxonomic ID is included in a classification entry in a classification table, wherein each entry in the classification table associates the first taxonomic ID with a classification identifier, a relationship attribute, and a second taxonomic ID, and wherein the classification table is included in a database of classifications configured to accommodate alternative classifications and help determine a classification for the organism, wherein the database of classifications includes a reference table in which each entry associates a classification identifier with a taxon that represents the root of the classification;

identify the second taxonomic ID of the classification entry; and

identify, based on the second taxonomic ID, a second name;

retrieving the information based on at least the first and/or second name.

40. (**Currently Amended**) A system for managing taxonomic information to
facilitate retrieval of information<u>, wherein information includes at least one of the</u>
<u>following another name for an organism, a classification for an organism, taxonomic</u>
<u>data for an organism, and/or other data related to an organism</u>, comprising:
a processor configured to operate on

a names table in which each entry associates a character string with a name
identifier;

a taxon table in which each entry associates a name identifier with a taxon
identifier;

a database of classifications that accommodates alternative classifications, the
database including:

a reference table in which each entry associates a classification identifier
with a taxon that represents the root of the classification; and

a classification table in which each entry associates a taxon identifier with
a classification identifier, a relationship attribute, and a second taxon identifier;

a name identifier configured to identify a name that specifies an organism<u> from</u>
<u>the names table</u>;

a determiner configured to use the name and the database of classifications to
help determine a classification for the organism; and

an identifier configured to use the classification to help identify information
associated with the organism<u>;</u>

<u>wherein the processor is further configured to retrieve the information based on</u>
<u>at least the name</u>.

41. (**Currently Amended**). A computerized method for managing taxonomic
information to facilitate retrieval of information<u>, wherein information includes at least one</u>
<u>of the following another name for an organism, a classification for an organism,</u>
<u>taxonomic data for an organism, and/or other data related to an organism</u>, comprising:
providing a database including:

a names table in which each entry associates a character string with a name identifier;

a taxon table in which each entry associates a name identifier with a taxon identifier; and

a database of classifications that accommodates alternative classifications, the database including:

a reference table in which each entry associates a classification identifier with a taxon that represents the root of the classification; and

a classification table in which each entry associates a taxon identifier with a classification identifier, a relationship attribute, and a second taxon identifier;

identifying a name that specifies an organism from the names table;

based on the name and the database of classifications, determining a classification for the organism; and

retrieving information based on at least the name.

42. (Previously Presented) The method of claim 41, wherein the method further comprises:

based on the classification, identifying information associated with the organism.

43. (Previously Presented) The method of claim 41, wherein the name is a polynomen.

44. (Previously Presented) The method of claim 41, wherein the name is a modern name.

45. (Previously Presented) The method of claim 41, wherein the name is a trinomen.

46. (Previously Presented) The method of claim 41, wherein the name is a scientific name.

47. (Previously Presented) The method of claim 41, the name is a non-scientific name.

48. (Previously Presented) The method of claim 41, further comprising:
receiving a request for information including the name; and
based on the request, selecting a database access layer to receive the request.

49. (Previously Presented) The method of claim 41, further comprising:
receiving a request for information including the name; and
directing the request to an application layer for serving client functions.

50. (Previously Presented) The method of claim 41, further comprising:
receiving a request for information including the name; and
directing the request to a data layer to determine a unique identifier associated with the organism.

51. (Previously Presented) The method of claim 41, further comprising:
identifying a textual description associated with the organism.

52. (Previously Presented) The method of claim 41, further comprising:
identifying an illustration associated with the organism.

53. (Previously Presented) The method of claim 41, further comprising:
identifying a multimedia data object associated with the organism.

54. (Previously Presented) The method of claim 41, further comprising:
identifying a data pointer associated with the organism.

55. (Previously Presented) The method of claim 41, further comprising:

basing the identification of the information on a defined domain of information.

56. (Previously Presented) The method of claim 41, further comprising:

determining a biological classification for the organism.

57. (Previously Presented) The method of claim 41, further comprising:

determining a geographical classification for the organism.

58. (Previously Presented) The method of claim 41, further comprising:

determining a non-biological classification for the organism.

59. (Previously Presented) The method of claim 58, further comprising

identifying information associated with another organism that belongs to the

classification.

60. (**Currently Amended**). A computerized method for managing taxonomic

information to facilitate retrieval of information, wherein information includes at least one

of the following another name for an organism, a classification for an organism,

taxonomic data for an organism, and/or other data related to an organism, comprising:

identifying a first name that specifies an organism;

associating a first taxon with the first name;

determining that the first taxon is included in a classification entry in a

classification database, the classification database allowing taxa to be organized

according to more than one classification wherein each entry in the classification

database associates the first taxon with a classification identifier, a relationship attribute,

and a second taxon, and wherein classifications database is configured to

accommodate alternative classifications and help determine a classification for the

organism, wherein the database of classifications includes a reference table in which

each entry associates a classification identifier with a taxon that represents the root of
the classification; and

    associating the second taxon with the classification entry;

    retrieving the information based on at least the name.

    61. (Cancelled)

    62. (Previously Presented) The system of claim 40, wherein the name is a
polynomen.

    63. (Previously Presented) The system of claim 40, wherein the name is a
modern name.

    64. (Previously Presented) The system of claim 40, wherein the name is a
trinomen.

    65. (Previously Presented) The system of claim 40, wherein the name is a
scientific name.

    66. (Previously Presented) The system of claim 40, the name is a non-scientific
name.

    67. (Cancelled).
    68. (Cancelled).

    69. (Previously Presented). The method of claim 32, wherein the first name is a
scientific name and the second name is a common name.

70. (Previously Presented). The method of claim 32,wherein the first name and the second name are scientific names and wherein the second name is a variant of the first name.

71. (Cancelled)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LESLIE WONG whose telephone number is (571)272-4120. The examiner can normally be reached on Monday to Friday 9:30am - 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CHARLES RONES can be reached on (571)272-4085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LW   /Leslie Wong/
August 20, 2009   Primary Examiner, Art Unit 2164